

COMBINATION SEAL AND BEARING UNIT

What Is Claimed Is:

1. A combination seal comprising a first annular case, and a second annular case having an annular seal member provided with protruding lips sealingly engaging said first annular case, said annular cases being fitted separately in and /or a stationary member and a rotatable member, wherein

said first annular case is formed of a cylinder having a fitting cylindrical portion fitted in and /or one of the members of the stationary member and the rotatable member, and the first vertical wall that extends toward the fitting cylindrical portion of the other member of the stationary member and rotatable member;

said annular seal member is provided with protruding axial lips having a distal portion which sealingly engages said first vertical wall of said first case, and a protruding radial lip having a distal portion which sealingly engages the external peripheral surface of said rotatable member; and wherein

said protruding radial lip extends such that its distal portion which sealingly engages said external peripheral surface of said rotatable member is inclining farther away than its leg portion from said first vertical wall of said first annular case in a direction along with said rotatable member.

2. The combination seal according to claim 1, wherein said axial lips are formed as two lips, and said protruding radial lip is formed as a single lip.

3. The combination seal according to claim 1 ~~or 2~~, wherein said stationary member and said rotatable member are inner and outer rings respectively that constitute a bearing; and

said first annular case is fitted in said rotatable member.

4. A bearing unit having bearing members interposed between a rotatable member and a stationary member in order to allow the rotatable member to rotate relative to the stationary member, wherein

the combination seal according to any of claims 1 ~~to 3~~ is provided at a location outside of the bearing members.